



## APPENDIX B

QUALCOMM INCORPORATED  
INVENTION DISCLOSURE

ID NO.: \_\_\_\_\_

The invention herein described was evolved during the course of my employment and is being submitted pursuant to the terms of the Employee Agreement signed by me.

1. TITLE OF INVENTION: Binary Turbo Codes with Gray Mapping for OFDM and OFDM with MIMO Communication Systems

2. PURPOSE OF INVENTION: To provide a coding method that achieves near channel capacity in Communication systems employing OFDM or OFDM with Multiple Transmitter and Receiver Antennas, which is also simple to implement.

3. CONCEPTION:

Invention conceived on: \_\_\_\_\_

This disclosure written on: \_\_\_\_\_

4. REDUCTION TO PRACTICE, if any:

Construction of device started on: N. A. .

Device completed on : N. A..

Device tested on : N. A..

5. BRIEF DESCRIPTION: See Attached .

Incorporated herein and forming a part of this disclosure are the following:

Additional Sheets (No.) Papers (No.) Photographs (No.) Prints (No.)

QUALCOMM PROPRIETARY

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6. Indicate whether invention conceived or reduced to practice under:

(a) Government or other contract? Yes\_\_ No X if yes,

(I) Project Name: (Insert Project Name Here).

(II) Account Charged: (Insert Account Charged Here).

(b) Company funded? Yes X No\_\_ if yes,

(I) Project Name: New License Bands (MMDS, LMDS, WLAN).

(II) Account Charged: 70694-02.

7. IDENTIFY ANY ANTICIPATED OR PAST PUBLICATIONS, OFFERS FOR SALE, REPORTS, PROPOSALS, OR OTHER TYPE OF DISCLOSURE WHETHER WRITTEN OR ORAL THAT WILL BE MADE OUTSIDE OF THE COMPANY.

N. A.

8. INVENTOR(s):

<u>Fuyun Ling</u>		
Inventor Signature	Inventor Printed Name	Date
<u>Rod Walton</u>		
Inventor Signature	Inventor Printed Name	Date
<u>Mark Wallace</u>		
Inventor Signature	Inventor Printed Name	Date
<u>Ivan Fernandez</u>		
Inventor Signature	Inventor Printed Name	Date
<u>(Rod: Anyone else?)</u>		
Inventor Signature	Inventor Printed Name	Date

9. WITNESSES:

The invention was disclosed to me by the above inventor(s).

The description was examined and is clearly understood.

Witness Signature	Witness Printed Name	Date
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Witness Signature

Witness Printed Name

Date